

In The Specification

Please find attached hereto Redlined and Clean copies of the amendment to the Specification which reflect the amendments originally filed together with the Preliminary Amendment, dated October 21, 2004.

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Noise Canceling Circuit

1. Field of the Invention

5 The present invention mainly relates to ripple noise cancellation in a stabilized DC power supply, and particularly provides a power circuit that achieves the high ripple noise cancellation rate with low operating current.

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2. Discussion of the Background Art

Not only electronic equipments, but also all the other electronic devices contain a plurality of stabilized DC power supply voltages. The power circuits are disposed in digital circuits, high-frequency circuits and analog circuits, said power circuits having the characteristics suitable for use in these circuits. In a cellular phone, among others, the highest ripple cancellation rate is required because a poor ripple cancellation rate in a power supply of a transmitting section degrades the clarity of the voice conversation. Even in a digitally coded wireless communication means, a carrier signal is modulated and demodulated in an analog manner during the modulation and the de-modulation, and therefore the power source ripple noises adversely influence the error rate. As to the cancellation of these ripple noises, for example, the cancellation rate of -80dB can be achieved by causing a sufficient amount of the operating current of $100\mu A$ to flow. Though some inventions are proposed as described later, there is no proposal that drastically